

ANNEX G

CONSTRUCTION PHASE MARINE WATER QUALITY MONITORING RESULTS

Water Quality Monitoring Data Log Sheet

Date: 2022/07/13

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E4	Sunny	Calm	13:25	8.6	S	0.90	212	29.00	29.00	11.85	11.86	8.16	8.16	113.2	113.2	8.16	8.16	7.61	6.4	6.4	12.1	9.1	9.3	5.4
						0.92	206	29.00		11.86		8.16		113.1		8.16			6.4					
						0.95	208	28.00		17.19		8.11		99.1		7.05			7.4					
					M	0.93	209	28.00	17.13	8.11	99.4	7.07	7.3	7.3	7.06	6.58	22.5	22.6	4.0					
						0.91	193	27.70	18.67	8.08	92.6	6.57	3.0											
						0.90	191	27.70	18.66	8.08	92.7	6.58	2.7											
IM10	Sunny	Calm	11:13	10.6	S	0.37	38	27.90	27.90	20.43	20.43	8.26	8.26	110.3	110.2	7.72	7.71	5.85	10.2	10.1	19.4	1.3	1.4	2.0
						0.33	35	27.90		20.42		8.26		110.0		7.70			1.5					
						0.45	54	26.00		32.65		7.95		58.6		3.96			2.1					
					M	0.44	57	25.90	32.70	7.94	59.3	4.00	2.3	3.98	3.67	3.67	16.0	16.0	2.6					
						0.40	50	25.60	34.42	7.94	54.5	3.67	2.4											
						0.39	45	25.60	34.42	7.94	54.6	3.67	2.4											
IM11A	Sunny	Moderate	11:36	4.8	S	1.13	135	28.40	28.40	15.69	15.70	8.14	8.14	99.6	99.5	7.09	7.08	7.08	11.2	11.2	22.4	2.3	2.2	2.0
						1.12	139	28.40		15.70		8.14		99.3		7.07			2.1					
						1.05	113	27.10		24.77		8.07		82.6		5.72			1.8					
					B	1.03	118	27.10	24.93	8.08	82.4	5.71	1.6	82.5	5.72	5.72	33.5	33.5	3.7					
						1.16	154	28.60	12.37	8.17	105.9	7.67	6.0											
						1.20	153	28.50	12.38	8.18	105.9	7.68	6.1											
IM12	Sunny	Moderate	11:59	9.2	S	1.14	153	27.30	27.30	21.97	21.98	8.10	8.10	87.3	87.4	6.12	6.13	6.90	11.5	11.5	19.1	1.9	1.8	1.9
						1.16	146	27.30		21.99		8.09		87.5		6.13			1.7					
						1.13	168	26.60		28.17		8.04		73.9		5.06			2.2					
					M	1.14	162	26.60	28.20	8.04	74.1	5.07	2.4	28.19	8.04	8.04	39.9	39.8	2.3					
						1.03	190	27.90	13.19	8.29	124.1	9.04	6.6											
						1.03	183	27.90	13.22	8.28	122.0	8.88	6.5											
IM13	Sunny	Calm	12:28	17.7	M	1.07	197	27.70	27.70	18.81	18.62	8.09	8.09	94.0	94.2	6.65	6.69	7.82	10.1	10.0	16.2	3.4	3.3	3.3
						1.09	200	27.70		18.43		8.09		94.4		6.72			3.1					
						1.12	215	27.10		21.52		8.04		80.5		5.66			2.9					
					B	1.09	218	27.00	23.67	8.03	79.9	5.58	2.6	22.60	8.04	8.04	32.0	32.0	2.8					
						0.91	206	28.90	11.63	8.13	108.8	7.86	6.6											
						0.94	209	28.90	11.61	8.14	108.8	7.85	6.6											
IM14	Sunny	Calm	12:46	10.1	S	0.94	228	27.70	27.70	18.15	18.19	8.08	8.08	92.9	92.8	6.60	6.59	7.22	8.1	8.1	14.6	6.9	7.2	8.1
						0.92	225	27.70		18.23		8.08		92.7		6.58			7.4					
						0.96	207	27.60		19.42		8.08		91.3		6.46			5.2					
					M	0.93	206	27.60	19.43	8.08	91.4	6.47	5.5	19.43	8.08	8.08	29.1	29.1	5.4					
						0.94	228	27.70	18.15	8.08	92.9	6.60	6.6											
						0.92	225	27.70	18.23	8.08	92.7	6.58	7.4											

Remark: * DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

*** S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2022/07/13

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)						
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*				
F4	Fine	Moderate	20:55	12.9	S	0.48	264	28.80	28.80	16.77	16.78	8.47	8.47	140.6	140.4	9.90	9.89	7.93	4.8	4.8	10.2	5.0	5.2	8.5				
						0.50	256	28.80	16.78	16.78	8.47	8.47	140.2	140.4	9.87	9.89	4.8		4.8									
						0.51	277	27.40	27.35	25.29	25.37	8.07	8.07	87.2	86.8	6.00	5.97		6.1	6.1								
					M	0.47	284	27.30	27.35	25.45	25.37	8.07	8.07	86.4	86.8	5.94	5.97	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
						0.48	278	26.40	26.40	31.20	31.22	7.86	7.86	48.9	49.0	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	
						0.43	284	26.40	26.40	31.24	31.22	7.86	7.86	49.0	49.0	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	
IM10	Fine	Moderate	20:21	11.0	S	0.47	231	26.90	26.90	27.78	27.72	8.06	8.06	76.2	76.4	5.21	5.22	4.45	19.6	19.6	28.7	11.3	11.5	12.9				
						0.47	232	26.90	27.66	27.66	8.06	8.06	76.5	76.4	5.23	5.22	19.6		19.6									
						0.54	242	25.70	25.70	34.19	34.19	7.97	7.97	54.8	54.9	3.68	3.69		3.69	3.69		25.8			25.8			
					M	0.49	244	25.70	25.70	34.19	34.19	7.97	7.97	54.9	54.9	3.69	3.69	3.69	3.69	25.7	25.8	25.8	25.8	25.8	25.8	25.8		
						0.51	253	25.70	25.70	34.23	34.23	7.98	7.98	56.8	57.0	3.82	3.83	3.83	3.83	40.8	40.7	40.7	40.7	40.7	40.7	40.7		
						0.54	257	25.70	25.70	34.23	34.23	7.98	7.98	57.2	57.2	3.84	3.84	3.84	3.84	40.7	40.7	40.7	40.7	40.7	40.7	40.7		
IM11A	Fine	Moderate	20:04	5.4	S	0.83	297	29.00	28.95	12.52	12.53	8.25	8.25	122.2	122.2	8.78	8.78	8.78	17.3	17.1	25.9	5.8	5.6	5.1				
						0.78	304	28.90	28.95	12.53	12.53	8.25	8.25	122.1	122.2	8.78	8.78		17.0	17.0								
						0.88	276	28.60	28.60	14.47	14.47	8.24	8.24	115.1	115.3	8.23	8.24		8.24	8.24		34.5			34.6			
					B	0.88	276	28.60	28.60	14.47	14.47	8.24	8.24	115.4	115.3	8.24	8.24	8.24	8.24	34.7	34.6	34.6	34.6	34.6	34.6	34.6		
						0.72	324	28.70	28.70	12.04	12.05	8.30	8.30	129.3	129.2	9.35	9.35	9.35	9.35	6.5	6.5	6.5	6.5	6.5	6.5	6.5		
						0.71	323	28.70	28.70	12.05	12.05	8.30	8.30	129.1	129.2	9.34	9.34	9.34	9.34	6.5	6.5	6.5	6.5	6.5	6.5	6.5		
IM12	Fine	Moderate	19:49	10.3	S	0.72	324	28.70	28.70	12.04	12.05	8.30	8.30	129.3	129.2	9.35	9.35	7.91	6.5	6.5	19.7	5.6	5.5	4.9				
						0.71	323	28.70	28.70	12.05	12.05	8.30	8.30	129.1	129.2	9.34	9.34		6.5	6.5								
						0.70	323	27.60	27.60	20.73	20.65	8.11	8.12	91.6	92.0	6.43	6.47		6.47	6.47								
					M	0.68	322	26.20	26.20	20.56	20.65	8.12	8.12	92.4	92.0	6.50	6.47	6.47	6.47	16.9	16.9	16.9	16.9	16.9	16.9	16.9		
						0.66	322	26.20	26.20	31.04	31.04	8.00	8.00	64.4	64.6	4.37	4.38	4.38	4.38	35.8	35.7	35.7	35.7	35.7	35.7	35.7		
						0.61	327	26.20	26.20	31.04	31.04	8.00	8.00	64.7	64.6	4.39	4.38	4.38	4.38	35.7	35.7	35.7	35.7	35.7	35.7	35.7		
IM13	Fine	Moderate	18:55	18.1	S	0.60	12	28.30	28.30	14.40	14.37	8.19	8.19	111.1	111.0	7.99	7.98	6.78	6.3	6.3	19.5	3.9	3.8	3.3				
						0.64	18	28.30	28.30	14.33	14.37	8.19	8.19	110.8	111.0	7.97	7.98		6.2	6.3								
						0.61	13	27.20	27.20	22.65	22.69	8.04	8.04	79.8	79.7	5.58	5.57		5.58	5.57		14.2			14.1			
					M	0.66	7	27.20	27.20	22.73	22.69	8.04	8.04	79.5	79.7	5.56	5.57	5.56	5.57	14.0	14.1	14.1	14.1	14.1	14.1	14.1		
						0.61	32	26.40	26.40	30.01	30.05	8.00	8.00	67.1	67.2	4.57	4.58	4.58	4.58	38.1	38.2	38.2	38.2	38.2	38.2	38.2		
						0.60	29	26.40	26.40	30.09	30.05	8.00	8.00	67.3	67.2	4.58	4.58	4.58	4.58	38.2	38.2	38.2	38.2	38.2	38.2	38.2		
IM14	Fine	Moderate	19:26	10.2	S	0.40	32	29.20	29.20	11.61	11.61	8.18	8.19	114.8	114.8	8.26	8.26	8.39	6.3	6.3	14.0	2.7	2.9	3.2				
						0.45	28	29.20	29.20	11.60	11.61	8.19	8.19	114.8	114.8	8.26	8.26		6.3	6.3								
						0.43	36	28.50	28.45	13.25	13.26	8.24	8.24	118.4	118.1	8.53	8.52		7.2	7.2								
					M	0.44	40	28.40	28.45	13.26	13.26	8.23	8.24	117.7	118.1	8.50	8.52	8.50	8.52	7.2	7.2	7.2	7.2	7.2	7.2	7.2		
						0.44	45	27.70	27.70	18.14	18.16	8.10	8.10	97.6	97.8	6.94	6.95	6.94	6.95	28.3	28.4	28.4	28.4	28.4	28.4	28.4		
						0.46	43	27.70	27.70	18.17	18.16	8.10	8.10	98.0	97.8	6.96	6.95	6.96	6.95	28.4	28.4	28.4	28.4	28.4	28.4	28.4		

Remark: * DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

*** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2022/07/15

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)								
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*						
E4	Fine	Moderate	14:08	8.1	S	0.93	196	28.50	28.45	19.08	19.13	8.01	8.01	87.9	87.9	6.14	6.14	5.89	16.6	16.6	25.7	4.0	4.2	6.7						
						0.90	193	28.40		19.17		8.01		87.9		6.13			16.7			4.4								
						0.96	184	28.10	20.24	7.99	80.9	5.64	21.6	6.5																
					M	0.98	181	28.10	20.34	7.99	80.9	5.64	21.6	6.1																
						B	1.01	193	26.90	25.77	26.01	7.96	7.96	66.2	66.3	4.57	4.57	38.9	38.9	9.4	9.6									
							1.03	188	26.90	26.25		7.96		66.4		4.57		38.8		9.8										
IM10	Fine	Calm	12:24	10.0	S	0.36	50	28.10	28.10	21.71	21.72	8.10	8.10	94.2	94.2	6.53	6.53	4.92	9.9	10.0	25.0	4.4	4.3	5.3						
						0.40	53	28.10		21.72		8.10		94.2		6.52			10.1			4.1								
						0.36	53	25.30	34.09	7.93	48.6	3.29	26.4	4.8																
					M	0.38	56	25.30	34.08	7.93	48.9	3.31	26.1	5.1																
						B	0.43	73	25.30	34.20	34.20	7.93	7.93	45.7	45.8	3.10	3.11	38.8	38.9	6.8	6.7									
							0.45	67	25.30	34.19		7.93		45.9		3.11		39.0		6.5										
IM11A	Fine	Moderate	13:10	4.5	S	1.11	135	28.90	28.85	16.18	16.11	8.12	8.12	103.6	103.8	7.30	7.33	7.33	10.2	10.2	25.7	3.7	3.6	3.9						
						1.16	139	28.80		16.03		8.12		103.9		7.35			10.2			3.5								
						B	1.13	118	27.90	20.69	20.70	8.13	8.13	90.7	90.8	6.34	6.35		41.0	41.1		4.1	4.1							
					1.12		114	27.90	20.70	8.13		90.9		6.36		41.3		4.1												
					IM12		Fine	Moderate	13:22	9.5	S	1.23	173	28.60	28.55	16.30	16.32	8.10	8.10	99.1	99.0	7.02	7.02		6.55	8.5	8.6	24.4	3.6	3.5
						1.23						169	28.50	16.34		8.10		98.8		7.01		8.7				3.4				
M	1.21	175	27.60	20.56		20.58						8.05	8.05	86.6	86.4	6.10	6.09	29.3	29.3	4.0	4.1									
	1.21	177	27.50	20.60							8.05	86.2		6.08		4.2														
	B	1.24	142	26.90		25.89					25.90	8.02	8.02	70.8	70.9	4.89	4.90	35.3	35.3	4.4	4.6									
1.23		140	26.90	25.91		8.02						71.0		4.91		35.2		4.7												
IM13		Fine	Moderate	13:47	17.4	S	1.05	184	28.60	28.60	17.09	17.12	8.12	8.12	97.8	97.8	6.89	6.89	6.00	7.7	7.7	26.5	3.4	3.6	4.3					
	1.10						191	28.60	17.14		8.12		97.8		6.89		7.7			3.7										
	1.03						212	27.20	23.71	8.03	73.4	5.11	23.1	4.7																
	M					1.00	209	27.10	23.72	8.03	73.3	5.11	23.2	4.3																
						B	1.11	193	26.20	18.10	18.14	7.87	7.87	55.6	55.4	4.02	4.01	48.6	48.7	4.8	4.7									
							1.06	193	26.20	18.17		7.87		55.1		4.00		48.9		4.6										
IM14	Fine	Moderate	13:56	10.4	S	0.96	206	29.20	29.20	15.29	15.30	8.14	8.14	115.5	115.4	8.08	8.07	7.27	6.8	6.8	15.5	3.2	3.4	4.3						
						1.00	202	29.20		15.30		8.14		115.3		8.06			6.9			3.6								
						M	0.97	218	27.80	20.31	20.28	8.02	8.02	93.0	93.0	6.46	6.47		8.1	8.2		4.3	4.5							
					0.94		223	27.70	20.25	8.02		93.0		6.47		8.2		4.6												
					B		1.00	186	27.40	23.33	23.32	8.02	8.02	76.8	76.9	5.33	5.34	31.6	31.6	5.1	5.2									
						1.04	179	27.40	23.30	8.02		77.0		5.35		31.6		5.2												

Remark: * DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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Date: 2022/07/15

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
F4	Fine	Moderate	21:21	11.4	S	0.44	288	27.60	27.60	19.32	19.30	8.16	8.17	108.6	108.7	7.55	7.56	7.19	5.8	5.8	8.0	4.0	3.8	3.1
						0.39	283	27.60		19.27		8.17		108.7		7.56			5.8			3.6		
						0.43	271	26.00		24.61		8.16		97.9		6.88			7.4			2.9		
					M	0.39	267	26.10	24.52	8.16	97.0	6.78	7.6	3.2										
						0.47	287	25.40	31.23	7.86	47.2	3.19	10.8	2.3										
						0.50	294	25.40	31.24	7.86	47.4	3.20	10.8	2.7										
IM10	Fine	Moderate	20:39	10.5	S	0.48	243	26.80	26.80	22.24	22.32	8.04	8.04	80.6	80.4	5.59	5.57	4.45	11.0	11.0	26.8	3.0	3.2	4.4
						0.47	245	26.80		22.40		8.03		80.1		5.55			11.0			3.4		
						0.50	229	26.30		34.00		7.98		49.0		3.32			20.8			4.6		
					M	0.49	230	26.30	33.99	7.98	49.2	3.33	20.9	4.2										
						0.46	266	26.30	34.20	8.00	52.0	3.52	48.6	5.4										
						0.48	259	26.30	34.18	8.01	52.2	3.53	48.8	5.8										
IM11A	Fine	Moderate	20:04	4.9	S	0.79	301	27.60	27.55	16.82	16.81	8.09	8.09	99.6	99.5	7.03	7.03	7.03	14.9	14.8	25.4	5.1	5.3	5.0
						0.80	307	27.50		16.79		8.09		99.4		7.03			14.8			5.4		
						0.77	278	26.90		20.37		8.08		89.2		6.24			35.9			4.5		
					B	0.79	272	26.90	20.44	8.08	89.2	6.24	36.1	4.8										
						0.51	327	27.20	16.59	8.10	105.2	7.57	6.4	4.2										
						0.51	326	27.10	16.64	8.10	104.1	7.49	6.5	4.4										
IM12	Fine	Moderate	19:49	9.8	S	0.57	342	26.70	26.65	20.28	20.31	8.09	8.09	90.2	90.2	6.34	6.35	6.94	19.2	19.2	24.9	4.5	4.7	4.9
						0.61	344	26.60		20.33		8.09		90.2		6.35			19.2			4.9		
						0.53	337	25.90		26.29		8.01		69.4		4.78			49.1			5.8		
					B	0.55	341	26.00	26.28	8.01	69.9	4.81	49.1	5.5										
						0.16	9	27.50	17.47	8.11	107.4	7.63	7.4	4.9										
						0.17	15	27.40	17.59	8.11	107.4	7.65	7.4	4.5										
IM13	Fine	Moderate	19:33	17.5	M	0.16	357	26.70	26.60	20.52	20.52	8.00	8.00	84.0	83.8	5.90	5.90	6.77	19.9	19.9	20.8	5.1	5.3	5.3
						0.16	350	26.50		20.52		8.00		83.5		5.89			19.8			5.5		
						0.16	357	25.30		29.22		7.96		73.2		5.04			35.1			5.6		
					B	0.19	350	25.30	29.24	7.96	72.9	5.02	35.3	5.9										
						0.28	32	27.80	15.15	8.23	103.6	7.40	7.2	4.7										
						0.30	38	27.60	15.21	8.22	103.1	7.39	7.1	5.0										
IM14	Fine	Moderate	19:23	10.6	S	0.21	36	27.30	27.30	19.91	19.97	8.16	8.16	86.4	86.8	6.02	6.04	6.72	18.3	18.3	17.9	4.1	4.3	4.4
						0.25	34	27.30		20.02		8.16		87.1		6.06			18.2			4.4		
						0.25	54	26.30		23.76		8.14		76.3		5.30			28.3			4.0		
					B	0.26	55	26.30	23.78	8.15	76.6	5.32	28.1	4.2										

Remark: * DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

*** S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed

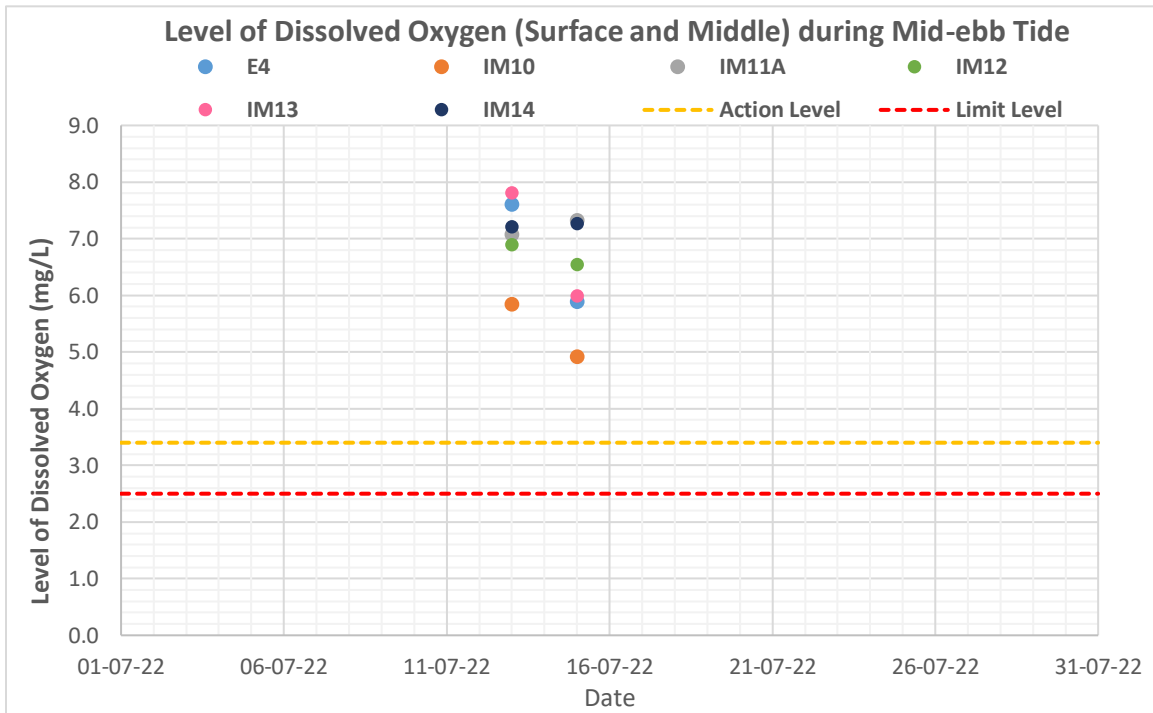


Figure G1a: Levels of Surface and Middle Dissolved Oxygen (mg/L) at control station (E4) and impact stations (IM10-IM14) under Group 4 during mid-ebb tides in July 2022.

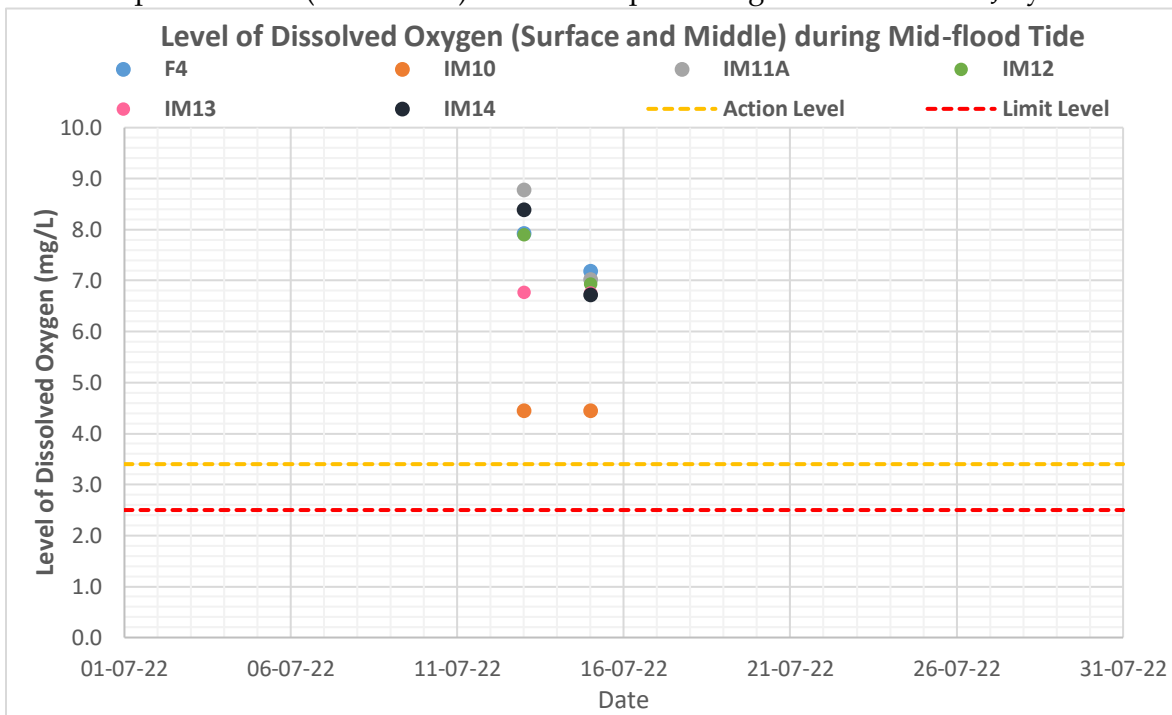


Figure G1b: Levels of Surface and Middle Dissolved Oxygen (mg/L) at control station (F4) and impact stations (IM10-IM14) under Group 4 during mid-flood tides in July 2022.

Source: P:\Projects\0505354 CLP Power Hong Kong Limited FSRU Pre-con EM&A.RC\07 Data\08 Impact WQ

Date: 1/8/22

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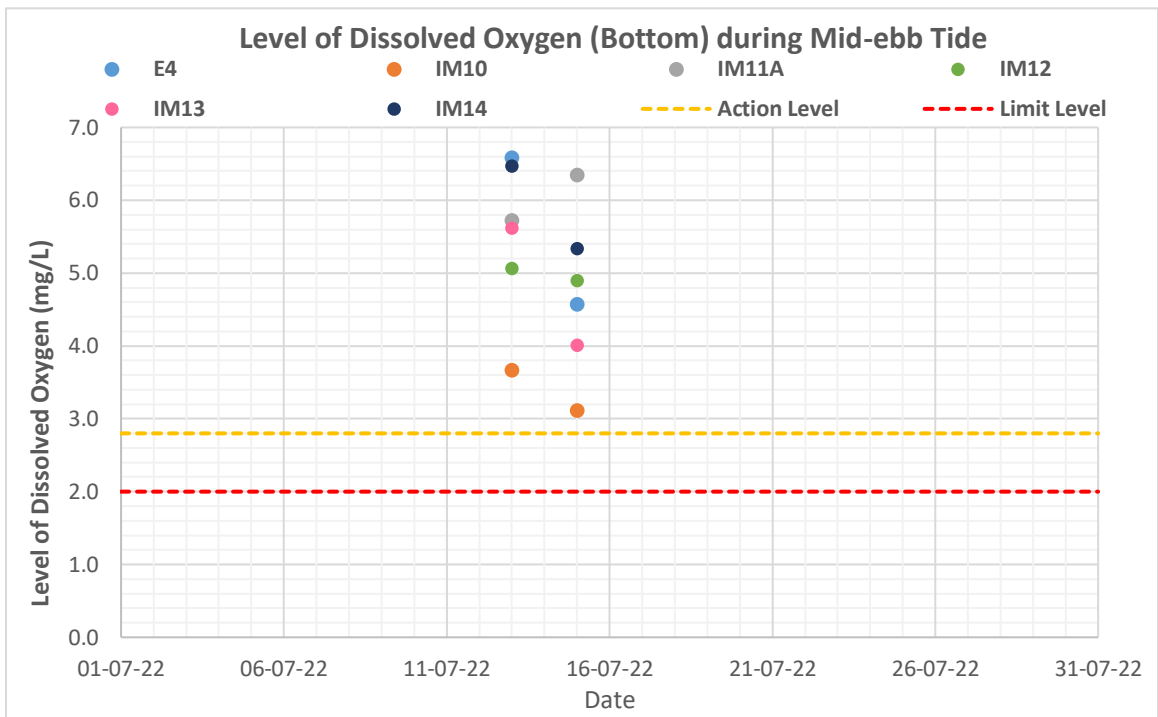


Figure G2a: Levels of Bottom Dissolved Oxygen (mg/L) at control station (E4) and impact stations (IM10-IM14) under Group 4 during mid-ebb tides in July 2022.

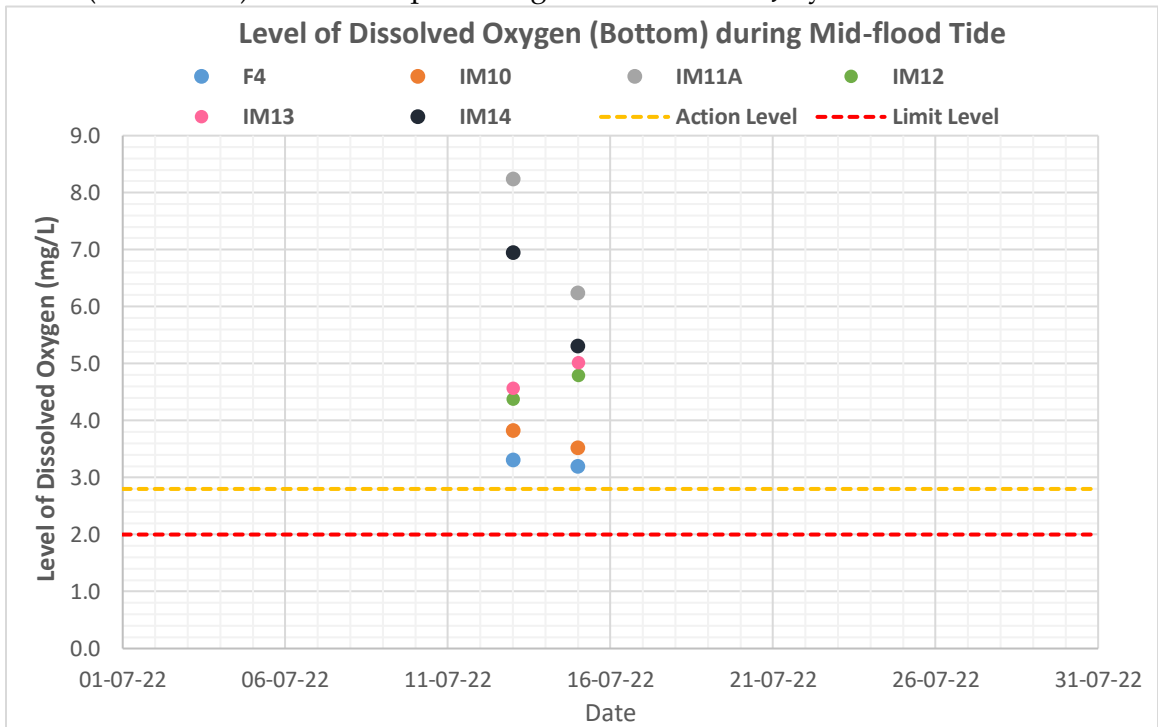


Figure G2b: Levels of Bottom Dissolved Oxygen (mg/L) at control station (F4) and impact stations (IM10-IM14) under Group 4 during mid-flood tides in July 2022.

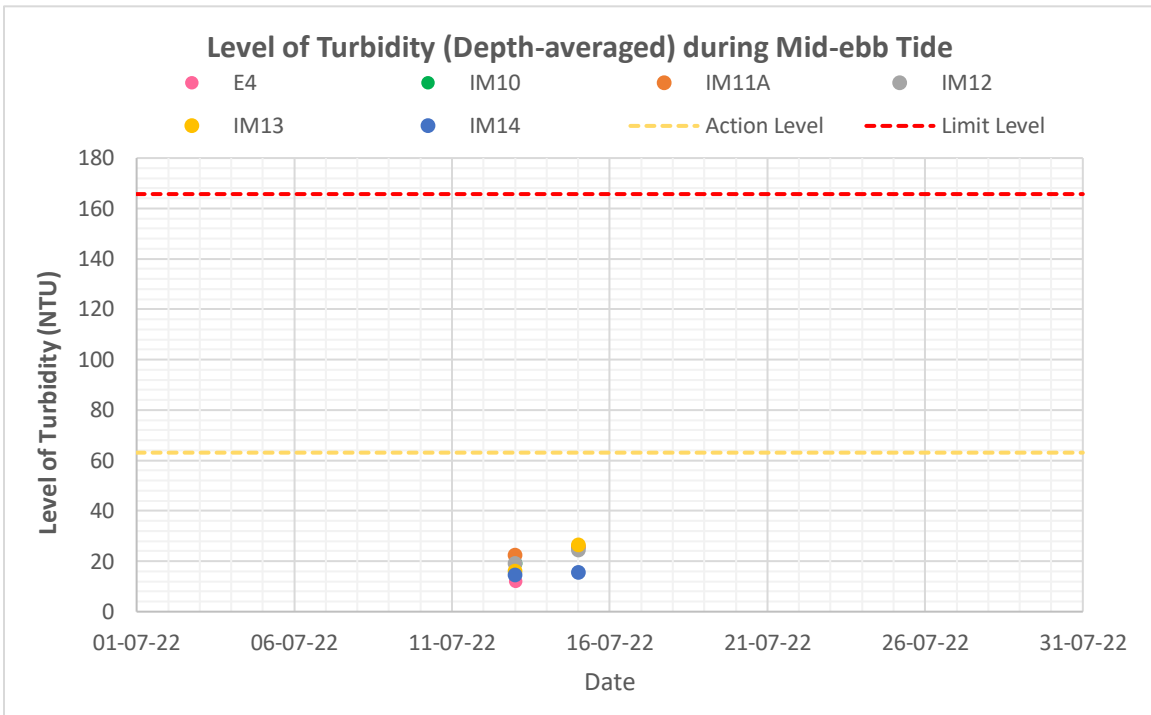


Figure G3a: Levels of Depth-averaged Turbidity (NTU) at control station (E4) and impact stations (IM10-IM14) under Group 4 during mid-ebb tides in July 2022.

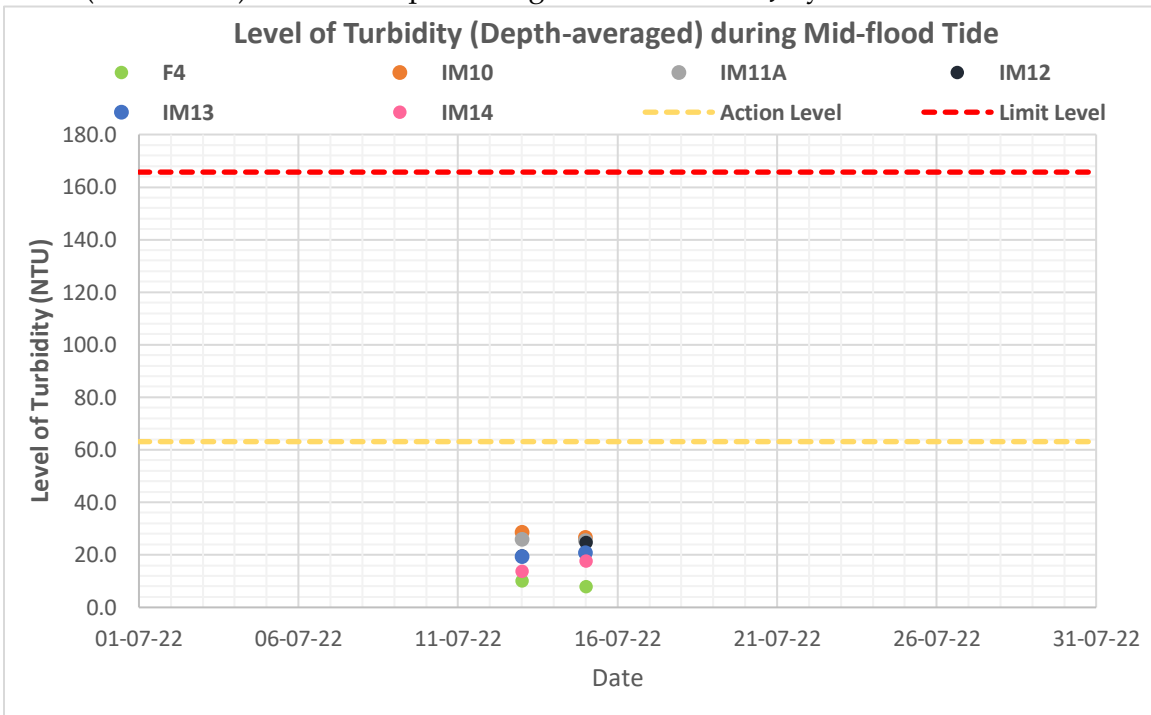


Figure G3b: Levels of Depth-averaged Turbidity (NTU) at control station (F4) and impact stations (IM10-IM14) under Group 4 during mid-flood tides in July 2022.

Source: P:\Projects\0505354 CLP Power Hong Kong Limited FSRU Pre-con EM&A.RC\07 Data\08 Impact WQ

Date: 1/8/22

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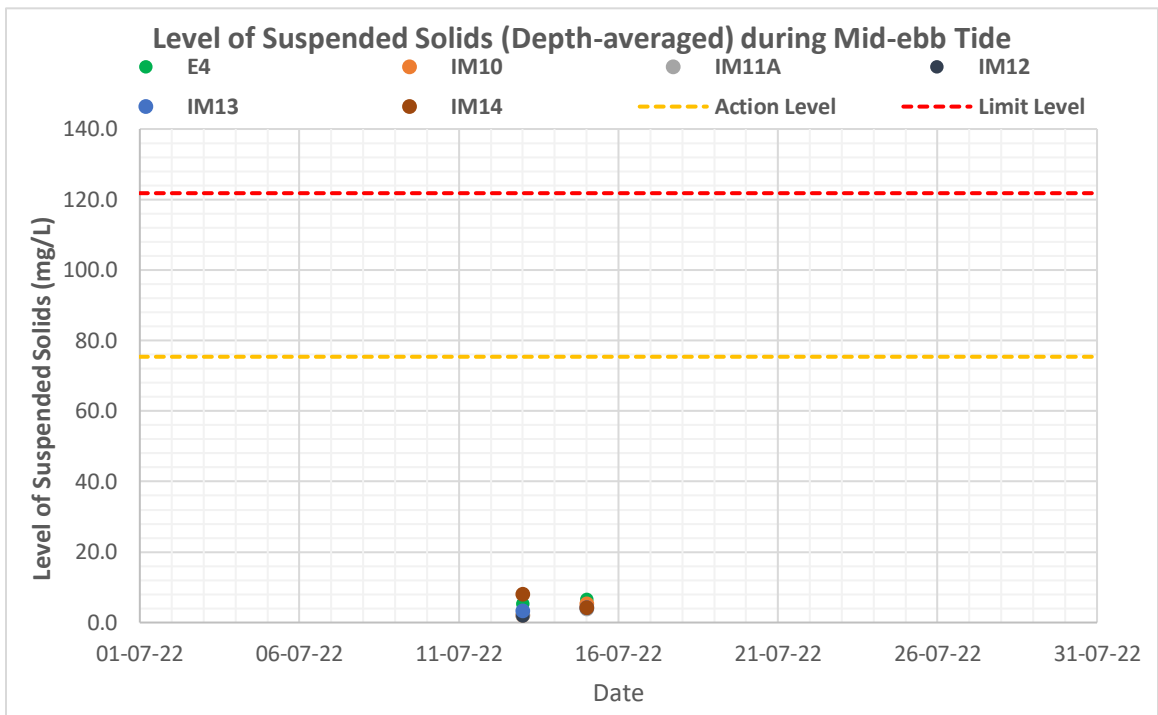


Figure G4a: Levels of Depth-averaged Suspended Solids (mg/L) at control station (E4) and impact stations (IM10-IM14) under Group 4 during mid-ebb tides in July 2022.

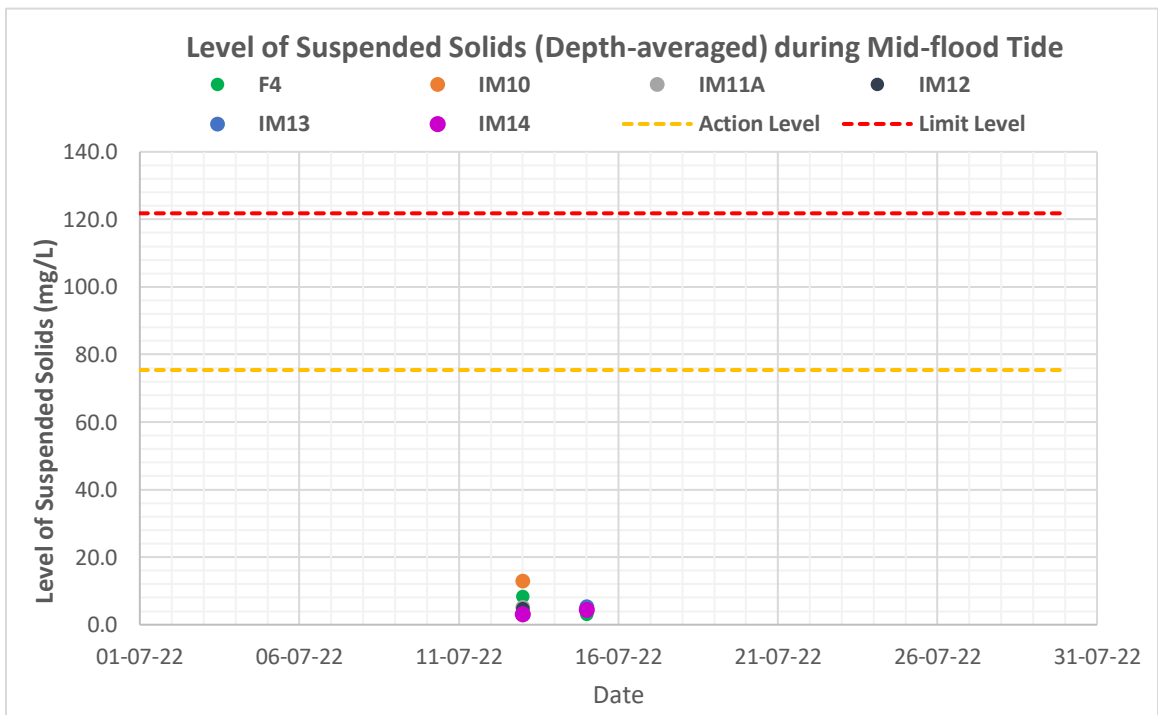


Figure G4b: Levels of Depth-averaged Suspended Solids (mg/L) at control station (F4) and impact stations (IM10-IM14) under Group 4 during mid-flood tides in July 2022.